Dart Aerospace Ltd. ♣londay, 5/7/2007 9:55:59 AM Kim Johnston User: **Process Sheet** : HIGH AFT X-TUBE 412 **Drawing Name** Customer : CU-DAR001 Dart Helicopters Services Job Number : 32226 **Estimate Number** : 10559 MA Part Number : D412664203 P.O. Number S.O. No. : 111A - D412-664-243 REV D **Drawing Number** This Issue : 5/7/2007 : N/A Project Number Prsht Rev. MIA Type : LANDING GEAR **Drawing Revision** ; D First Issue Alli: : 30427 Material Previous Run 6/10/2007 Qty: 1 Um: Due Date Written By Checked & Approved By Reformat; Added D3189-1 K/DS : Est Rev. 2 04.02.16 Comment 06-03-29 Remove Coments on Pick List JLM Est Rev:F 06.12.08 per ECN 886 EC Est Rev:G As per Rev D JLM Est Rev:H 07-04-30 **Additional Product** Job Number: Description: Seq. #: Machine Or Operation: DOCUMENT CONTROL DC 1.0 Comment: DOCUMENT CONTROL K-3 07.05.3 Photocopy bluefile and create labels as per PPP D412-664-203 CHG 006 D6009129 Crosstube Material 2.0 Comment: Qty.: 1.0000 Each(s)/Unit 1.0000 Each(s) Total: Pick: Qty Part number Description Batch 1 D6009-129 Crosstube 26548 Check OD = 3.500"; ID = 2.250" 07-08.05 MORI SEIKI CNC LATHE LARGE 3.0 MORI SEIKI

Comment: MORI SEIKI CNC LATHE LARGE

1-Fill tube with sand & install plugs DT8534 on both ends as per Folio FA166

2-Turn first side as per Folio FA166

3-Deburr & Inspect for surface damage. Repair damage within limits as per Dwg D412-664-243.

4.0 QC1

INSPECT ALL DIM TO DIM SHEET



Comment: INSPECT ALL DIM TO DIM SHEET

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W/O:		WORK ORDER CHANGES							
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Part No.		DAP #- Fault Category	NCP: Voc No DOA: Doto:						

Part No:	PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:
			QA: N/C C	losed:	Date:

	WORK ORDER NON-CONFORMANCE (NCR)									
	Description of NC		Corrective Action Section B							
STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date		Chief Eng	Approval QC Inspector			
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	STEP	STEP Description of NC Section A	STEP  Description of NC Section A  Initial Chief Eng	STEP  Description of NC Section A  Initial Chief Eng Corrective Action Section E Action Description Chief Eng	STEP Description of NC Section A Initial Chief Eng Chief	STEP  Description of NC Section A  Initial Chief Eng Chi	STEP Description of NC Section A Chief Eng Corrective Action Section B Verification Section C Section C Chief Eng Ch			

Monday, 5/7/2007 9:55:59 AM Date: Kim Johnston User: **Process Sheet** Drawing Name: HIGH AFT X-TUBE 412 Customer: CU-DAR001 Dart Helicopters Services Part Number: D412664203 Job Number: 32226 Job Number: Description: Seq. #: **Machine Or Operation:** MORI SEIKI CNC LATHE LARGE 5.0 MORI SEIKI Comment: MORI SEIKI CNC LATHE LARGE 1-Turn second side as per Folio FA166 2-Deburr & Inspect for surface damage. Repair damage within limits as per Dwg D412-664-243. 3- Remove sand and plugs 4-Scribe part # and batch # using vibrating stylus as per Dwg D412-664-243 Inside of Cuff(Donot engrave on outside of tube) (9) INSPECT ALL DIM TO DIM SHEET 6.0 QC1 Comment: INSPECT ALL DIM TO DIM SHEET (1) SECOND CHECK 7.0 QĊ8 0 Comment: SECOND CHECK LANDING GEAR RESOURCE 1 8.0 LANDING GEAR 1 Comment: LANDING GEAR RESOURCE 1 1-Polish entire outside surface of crosstube INSPECT WORK TO CURRENT STEP 9.0 QC5 Comment: INSPECT WORK TO CURRENT STEP HAND FINISHING RESOURCE #1 HAND FINISHING1 10.0 Comment: HAND FINISHING RESOURCE #1 7-6-7 Chemical Conversion Coat as per QSI 005 4.1 INSPECT POWDER COAT/CHEMICAL CONVERSION 11.0 QC3 Comment: Inspect work & Chemical conversion Coat

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Date: Monday, 5/7/2007 9:55:59 AM Kim Johnston User: **Process Sheet** Drawing Name: HIGH AFT X-TUBE 412 Customer: CU-DAR001 Dart Helicopters Services Part Number: D412664203 Job Number: 32226 Job Number: Description: Seq. #: Machine Or Operation: BENDING MACHINE BENDING 12.0 Comment: BENDING MACHINE Bend tube as per Dwg D412-664-243 using CNC bender program 412-af and Folio FT010 DIMENSIONAL CHECK OF X-TUBES 13.0 Comment: DIMENSIONAL CHECK OF X-TUBES LANDING GEAR RESOURCE 1 LANDING GEAR 1 14.0 Comment: LANDING GEAR RESOURCE 1 1-Drill pilot holes in tube as per Dwg D412-664-243 using drill Jig DT8550 & DT8551 √2-Ream hole to finish size in tube as per Dwg D412-664-243using drill Jig DT8550 & DT8551. Check dimensions between holes, both sides on both cuffs, to ensure alignment with saddle holes. 3-Deburr & Inspect for surface damage: Repair damage within limits as per Dwg D412-664-243 HAND FINISHING RESOURCE #1 HAND FINISHING1 15.0 Comment: HAND FINISHING RESOURCE #1 Chemical Conversion Coat as per QSI 005 4.1 INSPECT POWDER COAT/CHEMICAL CONVERSION 16.0 QC3 Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION INSPECT WORK TO CURRENT STEP QC5 17.0 Comment: INSPECT WORK TO CURRENT STEP 18.0 OUTSIDE SERV.10 **OUTSIDE SERVICES -LG** Comment: Sub-Contracting OUTSIDE SERVICES V7-87-27 Liquid Penetrant Inspection as per QSI 038Or U Issue P/O: 42400 LPI as per ASTM 1417 Level 2 Attach copy of NDT results to work order

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		Description of NC	Corrective Action Section B			Verification	Approval	Ammercal			
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Monday, 5/7/2007 9:55:59 AM Date: User: Kim Johnston **Process Sheet** Drawing Name: HIGH AFT X-TUBE 412 Customer: CU-DAR001 Dart Helicopters Services Job Number: 32226 Part Number: D412664203 Job Number: Description: Seq. #: Machine Or Operation: PACKAGING RESOURCE #1 19.0 PACKAGING 1 Comment: PACKAGING RESOURCE #1 Inspect for transit damage Ensure copy of NDT results attached to work order. 20.0 QC5 Comment: Inspect for damage & ensure results are as per Dwg D412-664-203 SPRAY PAINTING 21.0 Comment: SPRAY PAINTING 1-Prime inside and outside crosstube as per QSI 005 4.2 2-Paint outside crosstube with White Imron as per QSI 005 4.2 INSPECT SPRAY PAINT 22.0 QC14 Comment: Inspect Spray Paint Wrap in plastic bag to protect from scratches Rubber Cushion (per sq ft) 23.0 D3595 Comment: Qty.: 0.0492 sf(s)/Unit Total: 0.0492 sf(s)Rubber Cushion (per sq ft) .630" x5.70" x2pcs 07 -08 - 15 Batch: D2856600 Abrasion Strip 24.0 Comment: Qty.: 1.7640 f(s)/Unit Total: 1.7640 f(s) Pick: Batch Qty Part number Description AT. 2 D2856-600(Cut to 10.090") Abrasion Strip 25.0 D28961 Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Pick: **Description Batch** Qty Part number 41-80.40 0260 1 D2896-1 Support

# **Dart Aerospace Ltd**

W/O:		WORK ORDER CHA	NGES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Monday, 5/7/2007 9:55:59 AM Date: User: Kim Johnston **Process Sheet** Drawing Name: HIGH AFT X-TUBE 412 Customer: CU-DAR001 Dart Helicopters Services Job Number: 32226 Part Number: D412664203 Job Number: Description: Seq. #: Machine Or Operation: Chafing Shield D31891 26.0 Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) scraped Pick: Qty Part number **Description Batch** Chafing Sheild 2 D3189-1 Clamp(per MIL-DTL-8783C) 27.0 MS2192028 4.0000 Each(s) Comment: Qty.: 4.0000 Each(s)/Unit Total: Pick: Qty Part number **Description Batch** n 08 /4 Clamp 10384 4 MS21920-28 clamp(per MIL-DTL-8783C) 28.0 MS2192030 Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) clamp(per MIL-DTL-8783C) 07.08-14 batch: 100154 LANDING GEAR RESOURCE 1 29.0 Comment: LANDING GEAR RESOURCE 1 Assemble as per Dwg D412-664-203 1-Install supports with magnobond as per QSI 015 Adhere for for 12 Hrs BT 07-08-14 Batch: 154 723 Expiry De 3: 08-10-01 6398 Magnobond 07-08-15 2-Install clamps as per Dwg D212-664-141. Torque clamps to 80-100 in lb. INSPECT WORK TO CURRENT STEP 30.0 QC5 Comment: INSPECT WORK TO CURRENT STEP PACKAGING RESOURCE #1 31.0 PACKAGING 1 Comment: PACKAGING RESOURCE #1 Pick Packing Kit

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W/O:		WORK ORDER CHANGE	S							
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	day, 5/7/2007 9:55:59 AM Johnston		
<u> </u>		Process Sheet	
Customer:	CU-DAR001 Dart Helicopters Services	Drawing Name: HIGH AFT X-T	UBE 412
Job Number:	32226	Part Number: D412664203	
Job Number:			
Seq. #:	Machine Or Operation:	Description :	
32.0	AN640A	Bolt	
Commer	nt: Qty.: 4.0000 Each(s)/Unit Total :  Bolt  Batch: M/o y.3 7 4	4.0000 Each(s)	
33.0	AN641A	Bolt	
Commer	nt: Qty.: 2.0000 Each(s)/Unit Total :  Bolt Batch: M/00743	2.0000 Each(s)	/
34.0	AN960JD616	Washer	
Commer	nt: Qty.: 18.0000 Each(s)/Unit Total:  Washer  Batch: 10/0 43 79	18.0000 Each(s)  YX M/0 4537	14X /0
35.0	MS21042L6	Nut	
Commer	nt: Qty.: 6.0000 Each(s)/Unit Total :  Nut  Batch: Mo Yo 2	6.0000 Each(s)	Po 1/5/30
36.0	QC4	INSPECT 100% KITS FOR COMPLETENESS	
	t: INSPECT 100% KITS FOR COMPLETE		
37.0	PACKAGING 1	PACKAGING RESOURCE #1	
Commen	t: PACKAGING RESOURCE #1  Identify and pack for shipping as per PPF	D D412 664 203	
			_
	******Ensure tube is not packaged if curin *******	g time is less than 12 hrs, see step 27 for a	pplication time & date
	Time & date of packaging:		
	Location:PPP Rev:	1/8/3059	
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W/O:		WORK ORDER CHANGES								
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Date:

Monday, 5/7/2007 9:56:00 AM

User: •

Kim Johnston

**Process Sheet** 

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: HIGH AFT X-TUBE 412

Job Number: 32226

Part Number: D412664203

Job Number:



Seq. #:

Machine Or Operation:

Description:

38.0

FINAL INSPECTION/W/O RELEASE



Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



U 84.88.30

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W/O:		WORK ORDER CHANGES					
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NCR:	WORK ORDER NON-CONFORMANCE (NCR)							
		Description of NC		Corrective Action Section E	3	Verification	Approval	Approval
DATE STEP		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector

DART AEROSPACE LTD	Work Order:	32226
Description: Crosstube Assembly (412 High Aft)	Part Number:	D412-664-243
Inspection Dwg: D412-664-243 Rev: 8 0 84 02 29 27		Page 1 of 1

# FIRST ARTICLE INSPECTION CHECKLIST

X First Ar	ticle	Prototype
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		spection Sheet wing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
		2.684	+0.005/-0.000	7.688	<b>'</b>			
	-	2.748	+0.005/-0.000	7.752	,			
		2.884	+0.005/-0.000	1.888	1			
		3.019	+0.005/-0.000	3.023	)			
		3.163	+0.005/-0.000	3.167				
		3.308	+0.005/-0.000	3.312	1			
	4	3.429	+0.005/-0.000	3.4173	)			
	SIDE	2.990	+0.005/-0.000	2.994	<u></u>			
	<u>s</u>	2.618	+0.005/-0.000	7.622	1			
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		R0.063	+/-0.010	٠.663	V			
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N)	Ì	124.09	+/-0.020	124.09				

Measured by: SC Audited by: M> Prototype Approval: N/A

Date: 57.56.06

Date: 51.06.06

Date: N/A

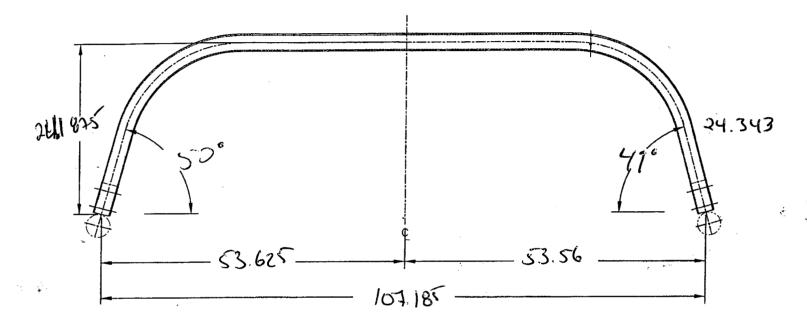
Rev	Date	Change	Revised by	Approved
Α	04.06.16	New Issue (P/O D412-664-203)	KJ/JLM	1
В	06.03.09	Dwg Rev updated	KJ/JLM 🔏	and l
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DART AEROSPACE LTD	Work Order:	32226
Description: Crosstube High Aft (412)	Part Number:	D412-664-203
Inspection Dwg: D412-664-243 Rev:		Page 1 of 1

P\$ 07.04.07

Required Dimension	Min	Max	
Height	24,24 24.31	<del>24.43</del>	24.50 7 RH
1/2 Span	53.59 53 <del>.66</del>	53.78	53.85 (07.04.0
Angle	49	52	) 07.0
Total Span	107.18 107.32	1 <del>97,5</del> 6	107.70



	Comments						
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	QC15 Insp	pection		2 B	Sim	12	

Rev	Date	Change	Revised by	Approved
Α	07.02.06	New Issue	KJ/JM of	fr.
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24.1875

24-343



DESIG	PH	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
CHEC	(ED	APPROVED #	DRAWING NO. REV. D
	47		D412-664-243 SHEET 1 OF 3
DATE			TITLE SCALE
07.0	3.09		CROSSTUBE ASSEMBLY (412 HI AFT) NTS
Α		01.10.17	NEW ISSUE
В		05.02.04	ADD HOLES FOR COMPATABILITY WITH BHT/AA SKIDTUBES
С		06.10.27	REMOVE D2856-600-1087, ADD D2732-058 & MAGNOBOND 6398 MS21920-32 WAS MS21920-30
D		07.03.09	REMOVE D2732-058, CHANGE TO D3595-063-570

07.04.24

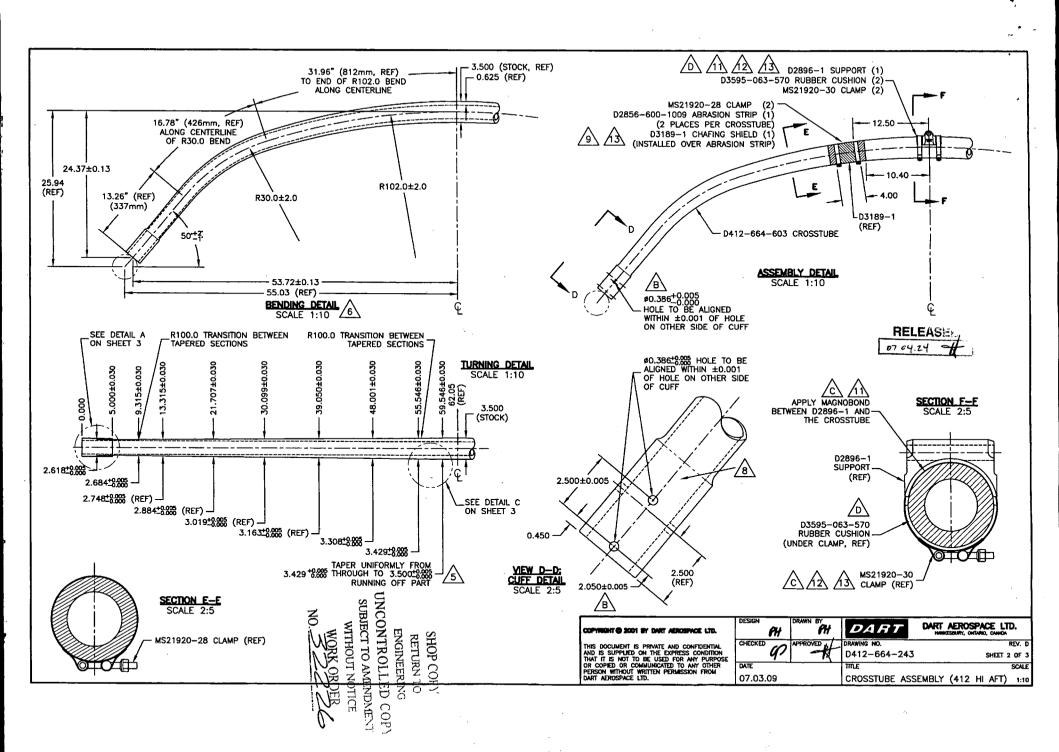
Qty	Part Number	Description
Х	D412-664-243	CROSSTUBE ASSEMBLY (412 HIGH AFT)
1	D6009-129	CROSSTUBE
2	D3595-063-570	RUBBER CUSHION
1	D2896-1	SUPPORT
2	D2856-600-1009	ABRASION STRIP
4	MS21920-28	CLAMP
2	MS21920-30	CLAMP (OR MS21920-32)
2	D3189-1	CHAFING SHIELD
A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

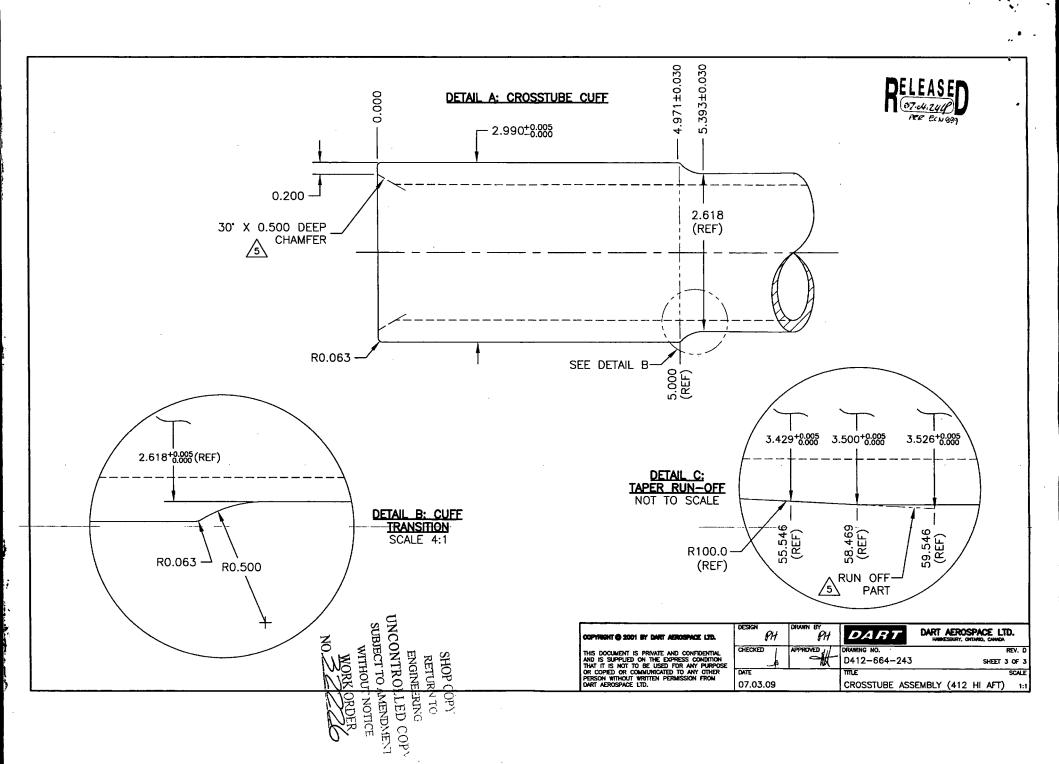
#### **GENERAL NOTES:**

- TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- MATERIAL: MANUFACTURED FROM D6009-129 FINISHED LENGTH = 124.09±0.020
- 3) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART 005 4.2
- PART IS SYMMETRIC ABOUT CENTERLINE.
- RUN-OFF PART, BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH.
- BEND PROGRESSIVELY WITH A MINIMUM OF 8 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.
- SCRIBE DART PART NUMBER AND BATCH NUMBER IN THIS AREA WITH VIBRATING STYLUS.
- INSTALL D2856-600-1009 ABRASION STRIP WITH A 0.13 (REF) GAP ON BOTTOM SIDE OF CROSSTUBE PER QSI 035.
- 10) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE
- 11) APPLY A 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2896-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 12) INSTALL MS21920-30 CLAMPS (OR -32) WITH D3595-063-570 RUBBER CUSHIONS TO SECURE D2896-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE CROSSTUBE SUPPORT.
- 13) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

SHOP COPY RETURN TO **ENGINEERING** UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE

WORK ORDER NO 32226







# HeathAir

INTERNATIONAL (1991) INC.

681 Ave. Lepine, Dorval, Québec H9P 1G3 Tél.: (514) 636-1000 • Fax: (514) 636-0031 **W.0.**  $N^{\circ}$  37039

A.M.O. Number: 46/90

# **NON-DESTRUCTIVE TESTING REPORT**

AIDADAET	COMPONENT INF			A 4.
AIKIRKALI		361941	T: WAR E	8 1 . V 22
			11-161	417.00

REG	IST	RAT	10	N:

MODEL/TYPE:

SERIAL NUMBER:

TOTAL HR/LDG:

**OPERATED BY:** 

BASED AT:

### **INSPECTION REQUIREMENTS**

Carry out FPI of six (6) cross tubes (external surface) as per ASTM E-1417-05 and the Dart QSI 038, Section 4.1.1 (on file at client) - parts delivered to HeathAir.

Qty. (1) P/N D212-664-201

S/N B32680

Qty. (2) P/N D212-664-101

S/N's B32673 & B32674

Qty. (3) P/N D412-664-203

S/N's B32228, B32226 & B32227

 RADIOGRAPHY

ULTRASONIC

PENETRANT

MAGNETIC PARTICLE

EDDY CURRENT

### **INSPECTION REPORT**

Fluorescent penetrant inspection was performed in accordance with the above requirements on six (6) cross tubes.

Note: A Level 3 penetrant was substituted for the requested Level 2 (3 is more sensitive)

Ardrox 970P25E Batch #04B503.

Six (6) cross tubes PASSED inspection.

THE MAINTENANCE DESCRIBED ABOVE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE STANDARDS OF AIRWORTHINESS

DATE

August 1, 2007

INSPECTED BY:

S.FLETHER.

INSPECTION Not Required

### **CUSTOMER INFORMATION**

CUSTOMERDart Aerospace

P.O. NUMBER

4266

ADDRESS:

3

CONTACT NAME:

LABOUR	@	\$
MATERIALS	@	
TRAVEL EXPENSES	0	GST
HOTEL EXPENSES	@	PST

INVOICE NO.

TOTAL \$



Dart Aerospace L	

Part No: \_

W/O:		WORK ORDER CHANGES	T T			Approval	
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Chief Eng / Prod Mgr	QC Inspector
	20.1	Strip x-tubes to remove pount i primer.					
A0813		Polish toses to venice cicum anciel marks, by Polishing logitudally with a bowel grindle.	JA	7-843	1		1008.13
And the second		Inspect the surface Pinish /LANGE-13 (	1	07-08:13	1	Posiour	770010
	45.05	Atadine Chemicial conversion cast per QS1005 4.1	1				
Marine Salaria		Proceed with stip 21.0	NA		<b>⇒</b>		
			7-7	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			1
Part No		PAR #: Fault Category:NC	CR: Yes	No DO	· /~	Date: <u>C</u>	7/68/30

QA: N/C Closed: \_\_\_\_ Date: \_\_\_

NCR:		W	WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section B  Action Description  Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector	